

XP-002188002

AN - 1994-146978 [26]

AP - JP19920243522 19920911 JP19920243522 19920911; [Previous Publ.

J06090738 ]

CPY - SUMB

DC - A96 B04 D16

DR - 1850-U 1887-U

FS - CPI

IC - C08J7/12 ; C12M3/00

MC - A10-E11 A11-C04D A12-W11L B04-F02 B05-B01B B11-A D05-H02

M1 - [02] B114 B414 B711 B712 B713 B720 B731 B732 B741 B751 B752 B793 B794  
B799 B831 C017 C100 C107 C520 H100 H102 H181 H182 H183 H607 H721 H722  
H723 J011 J012 J013 J371 J372 J373 K620 K640 L431 L432 L640 L699 M210  
M211 M212 M213 M214 M215 M216 M231 M232 M233 M262 M272 M280 M281 M282  
M283 M311 M312 M313 M314 M315 M316 M320 M321 M322 M323 M331 M332 M340  
M342 M361 M383 M391 M392 M423 M424 M430 M510 M520 M530 M540 M620 M740  
M782 M903 M904 Q233 V743; 9418-12001-M

- [03] G010 G100 H7 H715 H721 M210 M212 M240 M281 M320 M423 M424 M430  
M510 M520 M531 M540 M610 M740 M782 M903 M904 M910 Q233 V0 V743;  
R00708-M; 1850-U

M2 - [01] B114 B414 B711 B712 B713 B720 B731 B732 B741 B751 B752 B793 B794  
B799 B831 C017 C100 C107 C408 C520 C550 C810 H100 H102 H181 H182 H183  
H607 H721 H722 H723 J011 J012 J013 J371 J372 J373 K620 K640 L431 L432  
L640 L699 M210 M211 M212 M213 M214 M215 M216 M231 M232 M233 M262 M272  
M280 M281 M282 M283 M311 M312 M313 M314 M315 M316 M320 M321 M322 M323  
M331 M332 M340 M342 M361 M383 M391 M392 M411 M424 M430 M510 M520 M530  
M540 M620 M740 M782 M903 M904 M910 Q233; R01887-U; 9418-12001-M; 1887-U

M6 - [04] M903 Q233 R502 R521

- [04] M903 Q130 R501 R730 R740

PA - (SUMB) SUMITOMO BAKELITE CO

PN - JP6090738 A 19940405 DW199418 C12M3/00 007pp

- JP2755880B2 B2 19980525 DW199826 C12M3/00 007pp

PR - JP19920243522 19920911

XA - C1994-067126

XIC - C08J-007/12 ; C12M-003/00

AB - J06090738 A culturing appts. is prepd. by forming a prim. amino-silane layer on the surface of a substrate having OH gp. to give it positive charge and the surface of the substrate is pref. the surface of a plastic moulding contg. OH gp. introduced by an oxidative treatment of physico-chemical means and the formation of the prim. amino silane layer is pref. done by reacting a prim. amino silane coupling agent of the formula  $\text{NH}_2\text{-R-Si-XnY}_3\text{-n}$ . X and Y are hydrolysate of alkoxy, Cl, acetoxy, acetyl amino or propenoxy, n is 2 or 3, and R is  $\text{--}((\text{CH}_2)_x\text{-NH})_m\text{--}(\text{CH}_2)_y\text{--}$  or  $\text{--CONH--}((\text{CH}_2)_x\text{-NH})_m\text{--}(\text{CH}_2)_y\text{--}$  (x and y are 0-20 and m is 0-10).

- The culturing appts. is stable for a long period and suitable for the culture of nerve and liver-cells.

- In an example, an injection-moulded polystyrene dish of 35 mm. dia. was treated by a h-f low temp. plasma under oxygen gas in vacuo and dipped in 10% methanol soln. of gamma-aminopropyl trimethoxysilane for 6 hrs. and washed with distilled water and dried to give a prim. amino silanised dish having a surface amino gp. density of 1.2 nmol/cm<sup>2</sup>. It

was sterilised by gamma ray. Rat embryo nerve cells were primarily cultured and PCI2 cells were cultured in it favourably. The culturing activity was maintained after it was stored at room temp. for 1 year.(Dwg.0/0)

CN - 9418-12001-M R00708-M R01887-U

DRL - 1850-U 1887-U

IW - CULTURE APPARATUS STABILISED LONG PERIOD CULTURE NERVE LIVER CELL PREPARATION FORMING PRIMARY AMINO SILANE LAYER SURFACE SUBSTRATE PLASTIC MOULD HYDROXYL GROUP POSITIVE CHARGE INTRODUCING OXIDATION TREAT

IKW - CULTURE APPARATUS STABILISED LONG PERIOD CULTURE NERVE LIVER CELL PREPARATION FORMING PRIMARY AMINO SILANE LAYER SURFACE SUBSTRATE PLASTIC MOULD HYDROXYL GROUP POSITIVE CHARGE INTRODUCING OXIDATION TREAT

NC - 001

OPD - 1992-09-11

ORD - 1994-04-05

PAW - (SUMB ) SUMITOMO BAKELITE CO

TI - Culturing appts. stable for long period for culture of nerve and liver cells - prepd. by forming prim. amino silane layer on surface of substrate of plastic moulding with hydroxyl gp. for positive charge introduced by oxidative treatment

A01 - [001] 017 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D88 ; H0000 ; S9999 S1434 ; M9999 M2324 ; M9999 M2437-R ; M9999 M2777 ; L9999 L2391 ; L9999 L2777 ; L9999 L2802 ; M9999 M2802 ; P1741 ; P1752 ;  
- [002] 017 ; ND01 ; Q9999 Q8082 ; B9999 B3418-R B3372 ; N9999 N6484-R N6440 ; K9427 ; N9999 N6882 N6655 ; N9999 N6780-R N6655 ; N9999 N6871 N6655 ; K9803-R K9790 ; B9999 B4568-R ; K9665 ; K9949 ; N9999 N7227 N7023 ; B9999 B5492 B5403 B5276 ;  
- [003] 017 ; Si 4A ; H0157 ;  
- [004] 017 ; D01 D11 D10 D50 D86 F08 F07 F86 F87 ; H0226 ; S9999 S1627 S1605 ;